

FIG. 1

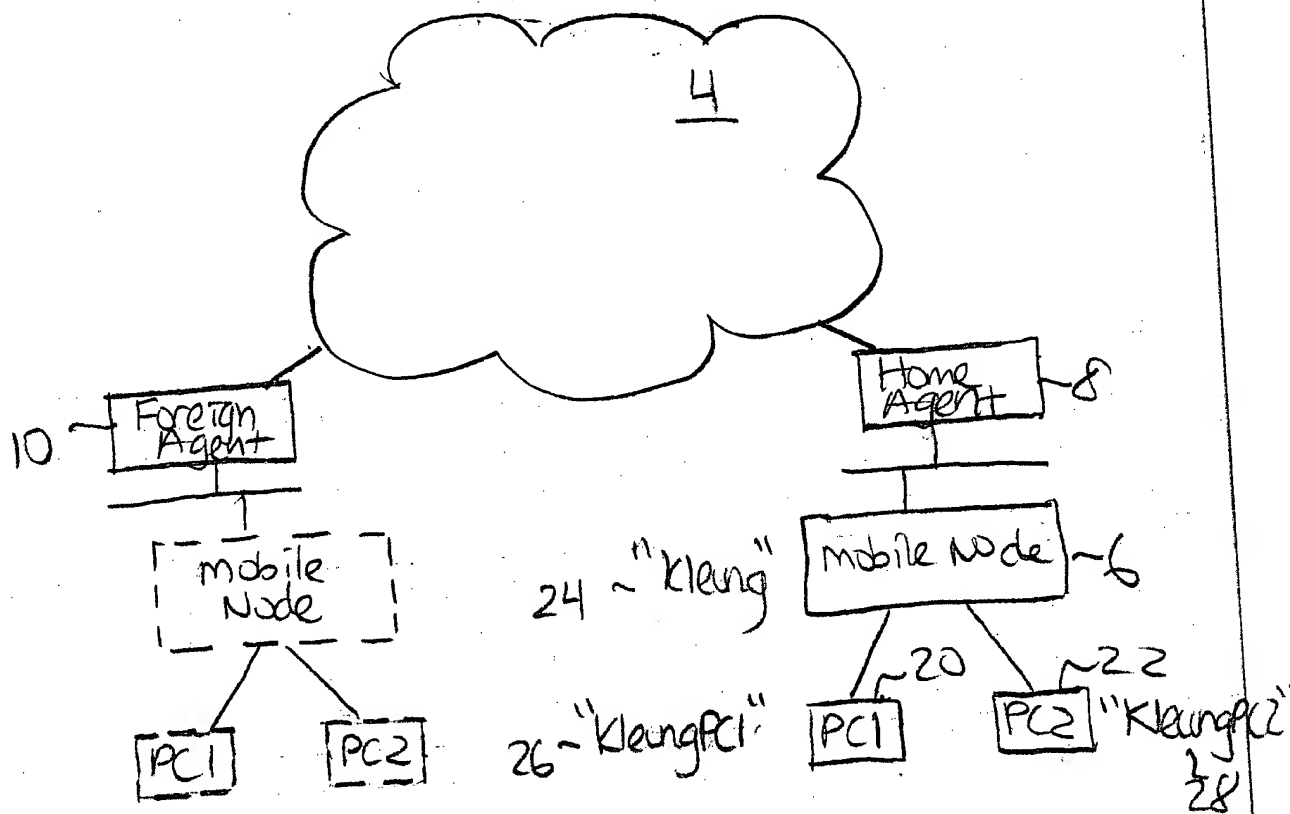


FIG. 2

mobile node composes
and sends registration
request with NAI and
sub-NAI on behalf
of new session ~302

FA receives and
forwards registration
request to HA ~304

HA performs authentication
based upon NAI, composes
registration reply with IP
address for session and
sends the registration reply
to FA ~306

FA receives registration
reply and forwards the
registration reply to
the mobile node so that
it can map the IP
address to the session ~308

FIG. 3

302

mobile node
composes and
sends registration
request

mobile node detects
start of session

~402

mobile node
composes
registration
request

~404

mobile node appends
NAI and sub-NAI
extensions to
registration request

~406

Send registration
request to
Home Agent

~408

FIG. 4

SECRET

304

Foreign Agent
receives and
forwards registration
request

Foreign Agent receives
registration request
including NAT and
sub-NAT extensions

502

Foreign Agent sends
the registration request
to Home Agent

504

FIG. 5

SECRET

Home Agent
composes
registration
reply

306

Home Agent authenticates
the registration request
using the NAT

602

Determine whether the
mobility binding table
includes a binding between
the NAT, sub-NAT and
an IP address

604

Is
binding in
mobility
binding table?

606

Get IP
address from
mobility binding
table entry

608

Decide if HA
needs to assign
IP address to
mobile node

610

Need
IP address?

612

Get new
IP address

614

Get IP
address
from
Home
Address
field of
registration
request

616

HA update
mobility
binding table
as req'd with
binding between
NAT, sub-NAT
and the IP address

618

Compose
registration
reply including
the IP address
in Home
Address field and
including NAT
and sub-NAT
extensions

620

Send
registration
reply

622

FIG. 6

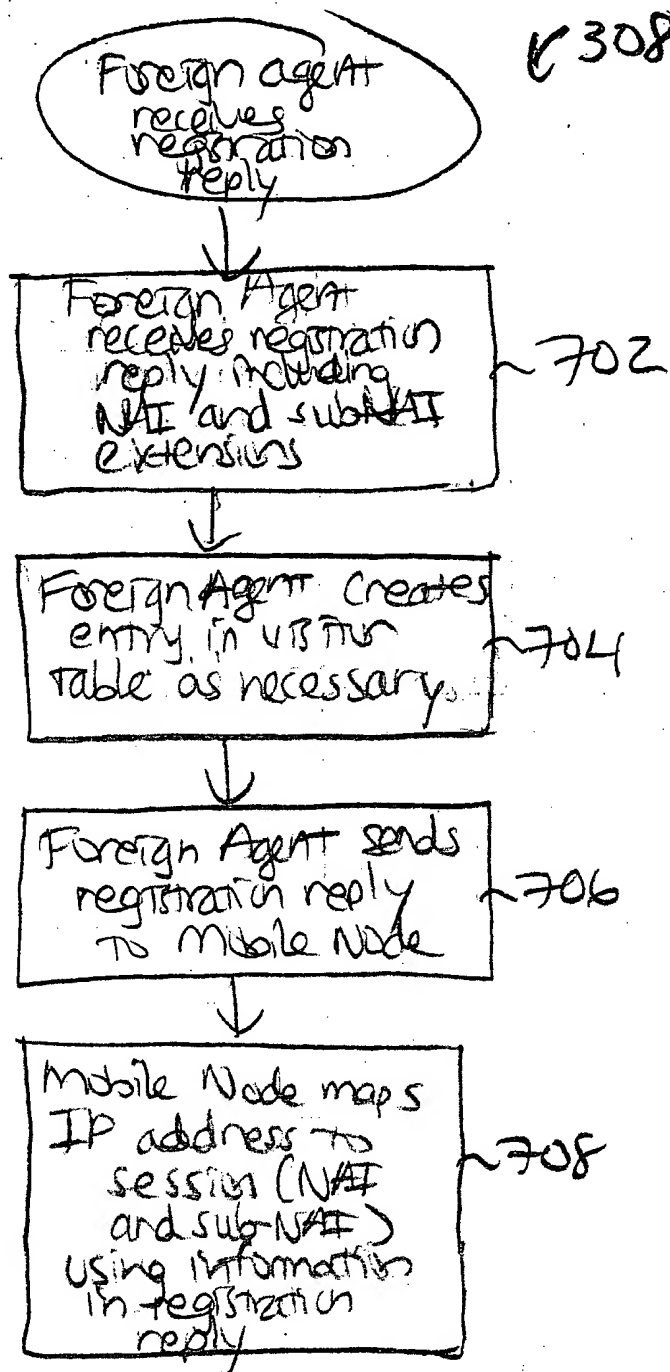


FIG. 7

Registration request

NAI

SUB-NAT

FIG. 8

Registration reply

NAI.

Sub-NAL

Fig. 9

mobility Binding Table

~1002	~1004	~1006	
NAI	Sub-NAI	IP address	CoA

* *

~1002	~1004	~1006	~1008	~1010
NAI	Sub-NAI	Session IP address	care-of address	Tunnel

* * *

FIG. 10

Visitor Table

1102	1104	1106	1108	1110

1102	1104	1106	1108	1110
NAI	Sub-NAI	Session IP address	Home Agent IP add	Interface - Tunnel to HA

FIG. 11

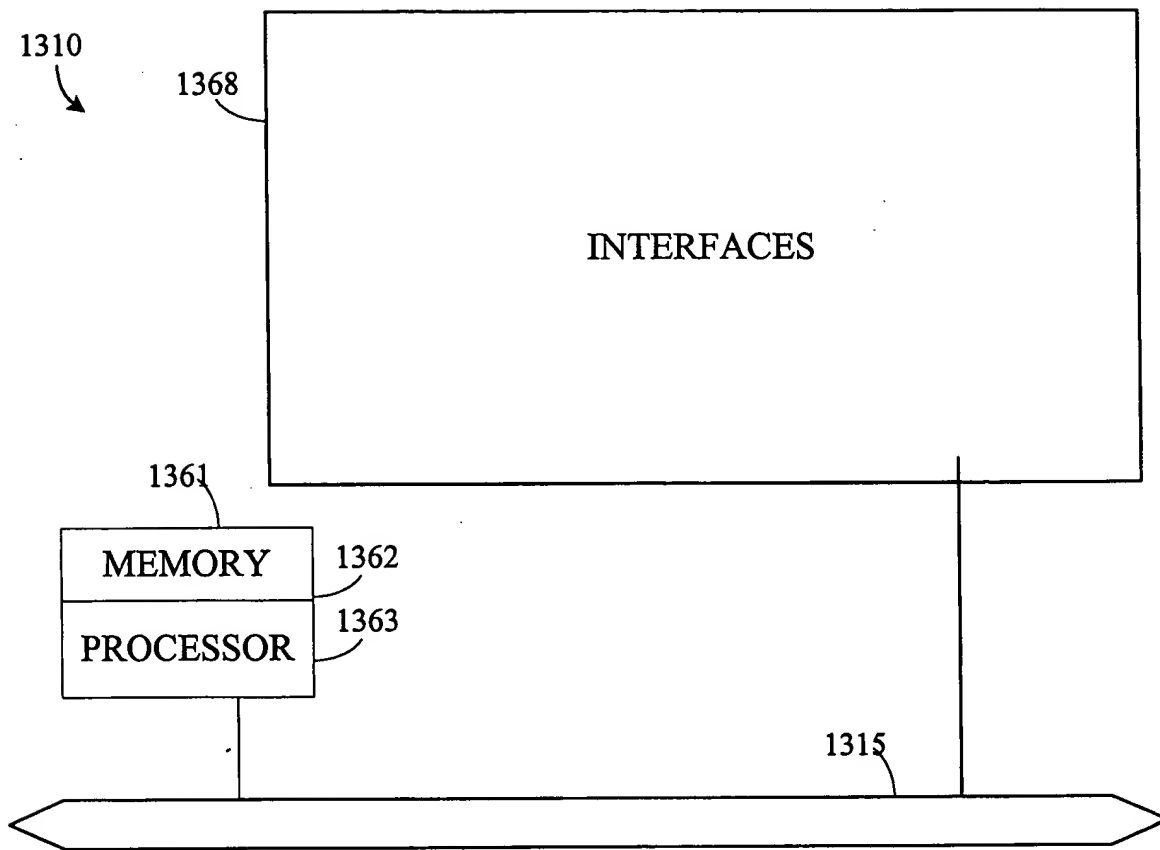


Figure 12